Author Index

Aboulayt, A., see Lahousse, C. 283
Aguilar-Ríos, G., see Valenzuela, M.A. 177
Ajjou, A.N., see Muzart, J. L15
Alcantara, A.R., see Sinisterra, J.V. 327
Alper, H. and Harustiak, M.
Allylic oxidation of olefins catalyzed by cobalt chloride. The beneficial effect of *N*-methylpyrrolidinone 87
Alvila, L., Pakkanen, T.A. and Krause, O.
Hydroformylation of olefins catalysed by supported $Ru_3(CO)_{12}$ with 2,2′-bipyridine or with other heterocyclic nitrogen base 145
Bachelier, J., see Lahousse, C. 283
Bajaj, H.C., see Chatterjee, D. L1
Bastida, A., see Guisán, J.M. 373
Batista-Viera, F., see Brena, B.M. 381
Baudisch, H., see Selke, R. 223
Ben Taleb, A. and Jenner, G.
Scope of the N-alkylation of amides and the C-alkylation of malonates by methyl formate and dimethyl carbonate L131
Bényei, A., Stafford, J.N.W., Kathó, Á., Darensbourg, D.J. and Joó, F.
The effect of phosphonium salt formation on the kinetics of homogeneous hydrogenations in water utilizing a rhodium *meta*-sulfonatophenyl-diphenylphosphine complex 157
Bertani, R., Cavinato, G., Toniolo, L. and Vasapollo, G.
New alkoxycarbonyl complexes of palladium(II) and their role in carbonylation reactions carried out in the presence of an alkanol 165
Bhatt, K.N., see Chatterjee, D. L1
Boča, R., Kožíšek, J. and Steinborn, D.
Electronic structure of bis(triphenylphosphine)acetone-(ethene)rhodium hexafluorophosphate 261
Bordes, E., see Ziötkowski, J. 307
Bosch, P., see Valenzuela, M.A. 177
Botis, A.G., see Papapolymerou, G. 267
Brena, B.M., Ovsejevi, K., Luna, B. and Batista-Viera, F.
Thiolation and reversible immobilization of sweet potato β-amylase on thiolsulfonate-agarose 381
Bressan, M., Forti, L. and Morvillo, A.
Ruthenium-catalyzed oxidation of alkylaromatics by monopersulfate with preferential oxidative fission of the benzene ring 59
Cavinato, G., see Bertani, R. 165
Chang, H.-S., see Song, W.-D. 109
Chatterjee, D., Bajaj, H.C., Halligudi, S.B. and Bhatt, K.N.
Catalysis of alkene hydrogenation and oxidation by nickel–saloph complex; a novel bifunctional catalyst L1
Cheng, L., see Lau, C.-P. 39
Chinellato, R., see Scrivanti, A. L141
Chu, K.-J., see Song, W.-D. 109
Costisella, B., see Selke, R. 223
Courtine, P., see Ziötkowski, J. 307
Darensbourg, D.J., see Bényei, A. 157
De la Vega, M., see Neumann, R. 93
Del Campo, C., Garcia, M., Gradillas, A., Llama, E.F., Salazar, L., Sánchez-Montero, J.M. and Sinisterra, J.V.
Enantiospecific hydrolysis of esters of nonsteroidal antiinflammatory drugs using lipase of *Candida cylindracea* 399
Fernández-Lafuente, R., see Rosell, C.M. 365
Fernández-Lafuente, R., see Guisán, J.M. 373
Fernández-Mayoralas, A., see Guisán, J.M. 373
Formica, M., Musco, A. and Pontellini, R.
Nucleophilic attack on the central allyl carbon of η^3-allyl complexes of Pd and Pt. Synthesis of cyclopropanes from allylic electrophiles and silyl enolates 239
Forti, L., see Bressan, M. 59
Garcia, M., see Del Campo, C. 399
Gemeay, A.H., see Salem, I.A. 67
Gobi, K.V. and Ramaraj, R.
Electron transfer reactions at Nafion and clay adsorbed $Ru(bpy)_3^{2+}$ coated electrodes 187
Gradillas, A., see Del Campo, C. 399
Grassert, I., see Selke, R. 223

Gubicza, L. and Kelemen-Horvàth, I.
Effect of water-mimicking additives on the synthetic activity and enantioselectivity in organic solvents of a *Candida cylindracea* lipase L27
Guisán, J.M., see Rosell, C.M. 365
Guisán, J.M., Rodríguez, V., Soler, G., Santana, C., Fernández-Lafuente, R., Bastida, A., Rosell, C.M., López, R., Fernández-Mayoralas, A. and Martín-Lomas, M.
Syntheses of pharmaceutical oligosaccharides catalyzed by immobilized-stabilized derivatives of different β-galactosidases 373
Halligudi, S.B., see Chatterjee, D. L1
Hardcastle, F.D., see Vuurman, M.A. 193
Harustiak, M., see Alper, H. 87
Heller, D., see Storz, F. 33
Höhnk, H.-D., see Thorn-Csányi, E. 253
Ihm, S.-K., see Song, W.-D. 109
Jenner, G., see Ben Taleb, A. L131
Joó, F., see Bényei, A. 157
Kathó, Á., see Bényei, A. 157
Kelemen-Horvàth, I., see Gubicza, L. L27
Kharitonov, A.S., see Sobolev, V.I. 117
Komiyama, M., see Shiiba, T. L21
Kožíšek, J., see Boča, R. 261
Krause, O., see Alvila, L. 145
Lahousse, C., Aboulayt, A., Maugé, F., Bachelier, J. and Lavalley, J.C.
Acidic and basic properties of zirconia–alumina and zirconia–titania mixed oxides 283
Lau, C.-P. and Cheng, L.
Catalytic hydrogenation reactions by [*cis*-[$Ru(6,6'\text{-}Cl_2bpy)_2(OH_2)_2$] $(CF_3SO_3)_2$ in biphasic [media (6,6′-Cl_2bpy=6,6′-dichloro-2,2′-bipyridine) 39
Lavalley, J.C., see Lahousse, C. 283
Liao, S., see Zhang, Y. 211
Llama, E.F., see Del Campo, C. 399
López, R., see Guisán, J.M. 373
Luna, B., see Brena, B.M. 381
Madeja, K., see Storz, F. 33
Maldonado, C., see Valenzuela, M.A. 177
Martín-Lomas, M., see Guisán, J.M. 373
Matsumoto, Y., see Shiiba, T. L21
Matteoli, U., see Scrivanti, A. L141
Maugé, F., see Lahousse, C. 283
Michalik, M., see Selke, R. 223
Morvillo, A., see Bressan, M. 59
Mouvier, G., see Váradi, G. L7
Musco, A., see Formica, M. 239
Muthukumaru Pillai, S., Tembe, G.L. and Ravindranathan, M.
Codimerization of 2,5-norbornadiene with ethylene using soluble cobalt and nickel catalysts 77
Muzart, J. and Ajjou, A.N.
Chromium(VI)-catalyzed oxidation of adamantane by *tert*-butyl hydroperoxide L15
Neumann, R. and De la Vega, M.
Oxidation of alkylaromatic compounds with hydrogen peroxide catalyzed by mixed addenda Keggin heteropolyanions 93
Oehme, G., see Selke, R. 223
Ohnishi, T., Suzuki, T., Yamakawa, T. and Shinoda, S.
Isomerization of methyl formate to acetic acid catalyzed by the Ru(II)–Sn(II) heteronuclear cluster complex [$Ru(SnCl_3)_5(PPh_3)$] 51
Ovsejevi, K., see Brena, B.M. 381
Pakkanen, T.A., see Alvila, L. 145
Pályi, G., see Váradi, G. L7
Panov, G.I., see Sobolev, V.I. 117
Papapolymerou, G., Botis, A.G., Papargyris, A.D. and Spiliotis, X.D.
Kinetics of the bimolecular reaction NO+H_2 on Pt 267
Papargyris, A.D., see Papapolymerou, G. 267
Paukshtis, Ye.A., see Sobolev, V.I. 117
Pflug, K.P., see Thorn-Csányi, E. 253
Pillai, R.B.C.
Synthesis of secondary amines by reductive alkylation using copper chromite catalyst: steric effect of carbonyl compounds 125
Pontellini, R., see Formica, M. 239
Porta, F., see Tollari, S. L137
Prasad, S. and Vetrivel, R.
Simulation of topography and acid properties of silicon substituted $AlPO_4$-11 framework 299
Ramaraj, R., see Gobi, K.V. 187
Ravindranathan, M., see Muthukumaru Pillai, S. 77
Rodríguez, V., see Guisán, J.M. 373
Rosell, C.M., Fernández-Lafuente, R. and Guisán, J.M.

Resolution of racemic mixtures by synthesis reactions catalyzed by immobilized derivatives of the enzyme penicillin G acylase 365
Rosell, C.M., see Guisán, J.M. 373
Salazar, L., see Del Campo, C. 399
Salem, I.A., Salem, M.A. and Gemeay, A.H.
Kinetics of heterogeneous decomposition of hydrogen peroxide with some transition metal complexes supported on silica–alumina in aqueous medium 67
Salem, M.A., see Salem, I.A. 67
Sanchez-Montero, J.M. and Sinisterra, J.V.
Immobilization of nucleases on corn cob 391
Sánchez-Montero, J.M., see Del Campo, C. 399
Santana, C., see Guisán, J.M. 373
Schifter, I., see Valenzuela, M.A. 177
Schwarze, M., see Selke, R. 223
Scrivanti, A., Chinellato, R. and Matteoli, U.
Pt(II)-$SnCl_2$ catalyzed hydromethoxycarbonylation of 1-alkynes: a remarkable example of regioselectivity control L141
Selke, R., Schwarze, M., Baudisch, H., Grassert, I., Michalik, M., Oehme, G., Stoll, N. and Costisella, B.
Carbohydrate phosphinites as chiral ligands for asymmetric syntheses catalyzed by complexes. Part X.[1] Importance of all-equatorial arrangement in vicinal bisphosphinite hexapyranoside ligands for rhodium catalyzed asymmetric hydrogenation 223
Shiiba, T., Yonezawa, K., Takeda, N., Matsumoto, Y., Yashiro, M. and Komiyama, M.
Lanthanide metal complexes for the hydrolysis of linear DNAs L21
Shinoda, S., see Ohnishi, T. 51
Sinisterra, J.V. and Alcantara, A.R.
Synthesis of peptides catalyzed by enzymes: a practical overview 327
Sinisterra, J.V., see Sanchez-Montero, J.M. 391
Sinisterra, J.V., see Del Campo, C. 399
Sobolev, V.I., Kharitonov, A.S., Paukshtis, Ye.A. and Panov, G.I.
Stoichiometric reaction of benzene with α-form of oxygen on FeZSM-5 zeolites. Mechanism of aromatics hydroxylation by N_2O 117
Soler, G., see Guisán, J.M. 373
Song, W.-D., Chu, K.-J., Chang, H.-S. and Ihm, S.-K.
Model for the formation of active titanium complexes on $MgCl_2$–ethyl benzoate–$TiCl_4$ catalysts for propylene polymerization 109
Spiliotis, X.D., see Papapolymerou, G. 267
Stafford, J.N.W., see Bényei, A. 157
Steinborn, D., see Boča, R. 261
Stoll, N., see Selke, R. 223
Storz, F., Heller, D. and Madeja, K.
Ziegler systems as hydrogenation catalysts. Part 2[1]. Dependence of the hydrogenation activity of $CoBr_2/Li[AlH_n(O\text{-}R)_{4-n}]$ systems from the concentration of the reducing agent 33
Suzuki, T., see Ohnishi, T. 51
Takeda, N., see Shiiba, T. L21
Tembe, G.L., see Muthukumaru Pillai, S. 77
Thorn-Csányi, E., Höhnk, H.-D. and Pflug, K.P.
Ring-opening metathesis copolymerization of cyclopentene and [2.2]paracyclophane-1,9-diene: UV-Vis-spectroscopic determination of sequence-length distribution of *p*-phenylenevinylene units 253
Tollari, S. and Porta, F.
Stoichiometric and catalytic oxidation of cyclohexylamine by $Mo(O)(O_2)_2(H_2O)(HMPA)$ L137
Toniolo, L., see Bertani, R. 165
Valenzuela, M.A., Bosch, P., Aguilar-Ríos, G., Zapata, B., Maldonado, C. and Schifter, I.
Platinum supported on coprecipitated Sn-$ZnAl_2O_4$ 177
Váradi, G., Mouvier, G., Vivarelli, P., Zucchi, C. and Pályi, G.
On the reactivity of acetylenes coordinated to cobalt. Part 8[1]: Carbonylation of acetylenes with bulky substituents L7
Vasapollo, G., see Bertani, R. 165
Vetrivel, R., see Prasad, S. 299
Vivarelli, P., see Váradi, G. L7
Vuurman, M.A., Hardcastle, F.D. and Wachs, I.E.
Characterization of CrO_3/Al_2O_3 catalysts

under ambient conditions: influence of coverage and calcination temperature 193
Wachs, I.E., see Vuurman, M.A. 193
Xu, Y., see Zhang, Y. 211
Yamakawa, T., see Ohnishi, T. 51
Yashiro, M., see Shiiba, T. L21
Yonezawa, K., see Shiiba, T. L21
Zapata, B., see Valenzuela, M.A. 177
Zhang, Y., Liao, S. and Xu, Y.
Highly active alkali metal hydrides; their catalytic syntheses and properties 211
Ziółkowski, J., Bordes, E. and Courtine, P.
Dynamic description of the oxidation of *n*-butane on various faces of $(VO)_2P_2O_7$ in terms of the crystallochemical model of active sites 307
Zucchi, C., see Váradi, G. L7

Subject Index

2,2′-bipyridine
Hydroformylation of olefins catalysed by supported $Ru_3(CO)_{12}$ with 2,2′-bipyridine or with other heterocyclic nitrogen base 145

6,6′-dichloro-2,2′-bipyridine
Catalytic hydrogenation reactions by [*cis*-[Ru(6,6′-Cl_2bpy)$_2$(OH_2)$_2$] (CF_3SO_3)$_2$ in biphasic [media (6,6′-Cl_2bpy=6,6′-dichloro-2,2′-bipyridine) 39

[2.2]paracyclophane-1,9-diene
Ring-opening metathesis copolymerization of cyclopentene and [2.2]paracyclophane-1,9-diene: UV–Vis-spectroscopic determination of sequence-length distribution of *p*-phenylenevinylene units 253

acetic acid
Isomerization of methyl formate to acetic acid catalyzed by the Ru(II)–Sn(II) heteronuclear cluster complex [Ru($SnCl_3$)$_5$(PPh_3)] 51

acetone
Electronic structure of bis(triphenylphosphine)acetone-(ethene)rhodium hexafluorophosphate 261

acetylenes
On the reactivity of acetylenes coordinated to cobalt. Part 8[1]: Carbonylation of acetylenes with bulky substituents L7

acidic properties
Acidic and basic properties of zirconia–alumina and zirconia–titania mixed oxides 283

acid properties
Simulation of topography and acid properties of silicon substituted $AlPO_4$-11 framework 299

active titanium complexes
Model for the formation of active titanium complexes on $MgCl_2$–ethyl benzoate–$TiCl_4$ catalysts for propylene polymerization 109

adamantane
Chromium(VI)-catalyzed oxidation of adamantane by *tert*-butyl hydroperoxide L15

alaninamide
Resolution of racemic mixtures by synthesis reactions catalyzed by immobilized derivatives of the enzyme penicillin G acylase 365

alkali metal hydrides
Highly active alkali metal hydrides; their catalytic syntheses and properties 211

alkali metal naphthalenes
Highly active alkali metal hydrides; their catalytic syntheses and properties 211

alkanol
New alkoxycarbonyl complexes of palladium(II) and their role in carbonylation reactions carried out in the presence of an alkanol 165

alkene
Catalysis of alkene hydrogenation and oxidation by nickel–saloph complex; a novel bifunctional catalyst L1

alkoxyalanate
Ziegler systems as hydrogenation catalysts. Part 2[1]. Dependence of the hydrogenation activity of $CoBr_2$/Li[AlH_n(O-R)$_{4-n}$] systems from the concentration of the reducing agent 33

alkoxycarbonyl complexes
New alkoxycarbonyl complexes of palladium(II) and their role in carbonylation reactions carried out in the presence of an alkanol 165

alkyl aromatics
Ruthenium-catalyzed oxidation of alkylaromatics by monopersulfate with preferential oxidative fission of the benzene ring 59

alkylation
Scope of the N-alkylation of amides and the C-alkylation of malonates by methyl formate and dimethyl carbonate L131

alkynes
Pt(II)–$SnCl_2$ catalyzed hydromethoxycarbonylation of 1-alkynes: a remarkable example of regioselectivity control L141

all-equatorial arrangement
Carbohydrate phosphinites as chiral ligands for asymmetric syntheses catalyzed

by complexes. Part X.[1] Importance of all-equatorial arrangement in vicinal bisphosphinite hexapyranoside ligands for rhodium catalyzed asymmetric hydrogenation 223

η^3-allyl complexes

Nucleophilic attack on the central allyl carbon of η^3-allyl complexes of Pd and Pt. Synthesis of cyclopropanes from allylic electrophiles and silyl enolates 239

allylic oxidation

Allylic oxidation of olefins catalyzed by cobalt chloride. The beneficial effect of *N*-methylpyrrolidinone 87

aluminium

Characterization of CrO_3/Al_2O_3 catalysts under ambient conditions: influence of coverage and calcination temperature 193

Simulation of topography and acid properties of silicon substituted $AlPO_4$-11 framework 299

amides

Scope of the N-alkylation of amides and the C-alkylation of malonates by methyl formate and dimethyl carbonate L131

amino acids

Carbohydrate phosphinites as chiral ligands for asymmetric syntheses catalyzed by complexes. Part X.[1] Importance of all-equatorial arrangement in vicinal bisphosphinite hexapyranoside ligands for rhodium catalyzed asymmetric hydrogenation 223

β-amylase

Thiolation and reversible immobilization of sweet potato β-amylase on thiolsulfonate-agarose 381

antiinflammatory drugs

Enantiospecific hydrolysis of esters of nonsteroidal antiinflammatory drugs using lipase of *Candida cylindracea* 399

aqueous solutions

The effect of phosphonium salt formation on the kinetics of homogeneous hydrogenations in water utilizing a rhodium *meta*-sulfonatophenyl-diphenylphosphine complex 157

aromatics

Stoichiometric reaction of benzene with α-form of oxygen on FeZSM-5 zeolites. Mechanism of aromatics hydroxylation by N_2O 117

artificial nuclease

Lanthanide metal complexes for the hydrolysis of linear DNAs L21

asymmetric hydrogenation

Carbohydrate phosphinites as chiral ligands for asymmetric syntheses catalyzed by complexes. Part X.[1] Importance of all-equatorial arrangement in vicinal bisphosphinite hexapyranoside ligands for rhodium catalyzed asymmetric hydrogenation 223

basic properties

Acidic and basic properties of zirconia–alumina and zirconia–titania mixed oxides 283

benzene

Stoichiometric reaction of benzene with α-form of oxygen on FeZSM-5 zeolites. Mechanism of aromatics hydroxylation by N_2O 117

benzene ring

Ruthenium-catalyzed oxidation of alkylaromatics by monopersulfate with preferential oxidative fission of the benzene ring 59

bifunctional catalyst

Catalysis of alkene hydrogenation and oxidation by nickel–saloph complex; a novel bifunctional catalyst L1

bimetallic catalysts

Platinum supported on coprecipitated Sn–$ZnAl_2O_4$ 177

bimolecular reaction

Kinetics of the bimolecular reaction $NO + H_2$ on Pt 267

biocatalysis

Syntheses of pharmaceutical oligosaccharides catalyzed by immobilized-stabilized derivatives of different β-galactosidases 373

biphasic media

Catalytic hydrogenation reactions by [*cis*-$[Ru(6,6'\text{-}Cl_2bpy)_2(OH_2)_2]$ $(CF_3SO_3)_2$ in biphasic [media (6,6′-Cl_2bpy = 6,6′-dichloro-2,2′-bipyridine) 39

calcination temperature

Characterization of CrO_3/Al_2O_3 catalysts under ambient conditions: influence of

coverage and calcination temperature 193
Candida cylindracea
Enantiospecific hydrolysis of esters of nonsteroidal antiinflammatory drugs using lipase of *Candida cylindracea* 399
carbohydrate phosphinites
Carbohydrate phosphinites as chiral ligands for asymmetric syntheses catalyzed by complexes. Part X.[1] Importance of all-equatorial arrangement in vicinal bisphosphinite hexapyranoside ligands for rhodium catalyzed asymmetric hydrogenation 223
carbonylation
New alkoxycarbonyl complexes of palladium(II) and their role in carbonylation reactions carried out in the presence of an alkanol 165
cerium(III) complex
Lanthanide metal complexes for the hydrolysis of linear DNAs L21
chiral ligands
Carbohydrate phosphinites as chiral ligands for asymmetric syntheses catalyzed by complexes. Part X.[1] Importance of all-equatorial arrangement in vicinal bisphosphinite hexapyranoside ligands for rhodium catalyzed asymmetric hydrogenation 223
chromium
Characterization of CrO_3/Al_2O_3 catalysts under ambient conditions: influence of coverage and calcination temperature 193
cobalt
Ziegler systems as hydrogenation catalysts. Part 2[1]. Dependence of the hydrogenation activity of $CoBr_2/Li[AlH_n(O-R)_{4-n}]$ systems from the concentration of the reducing agent 33
Codimerization of 2,5-norbornadiene with ethylene using soluble cobalt and nickel catalysts 77
cobalt carbonyls
On the reactivity of acetylenes coordinated to cobalt. Part 8[1]: Carbonylation of acetylenes with bulky substituents L7
cobalt chloride
Allylic oxidation of olefins catalyzed by cobalt chloride. The beneficial effect of *N*-methylpyrrolidinone 87
codimerization
Codimerization of 2,5-norbornadiene with ethylene using soluble cobalt and nickel catalysts 77
copolymerization
Ring-opening metathesis copolymerization of cyclopentene and [2.2]paracyclophane-1,9-diene: UV-Vis-spectroscopic determination of sequence-length distribution of *p*-phenylenevinylene units 253
copper chromite
Synthesis of secondary amines by reductive alkylation using copper chromite catalyst: steric effect of carbonyl compounds 125
corn cob
Immobilization of nucleases on corn cob 391
coverage
Characterization of CrO_3/Al_2O_3 catalysts under ambient conditions: influence of coverage and calcination temperature 193
crystallochemical active site model
Dynamic description of the oxidation of *n*-butane on various faces of $(VO)_2P_2O_7$ in terms of the crystallochemical model of active sites 307
cyclocarbonylation
On the reactivity of acetylenes coordinated to cobalt. Part 8[1]: Carbonylation of acetylenes with bulky substituents L7
cyclohexylamine
Stoichiometric and catalytic oxidation of cyclohexylamine by $Mo(O)(O_2)_2(H_2O)(HMPA)$ L137
cyclopentene
Ring-opening metathesis copolymerization of cyclopentene and [2.2]paracyclophane-1,9-diene: UV-Vis-spectroscopic determination of sequence-length distribution of *p*-phenylenevinylene units 253
cyclopropanes
Nucleophilic attack on the central allyl carbon of η^3-allyl complexes of Pd and Pt. Synthesis of cyclopropanes from allylic electrophiles and silyl enolates 239

η^2-dihydrogen complex
Catalytic hydrogenation reactions by [*cis*-[Ru(6,6′-Cl_2bpy)$_2$(OH_2)$_2$] (CF_3SO_3)$_2$ in biphasic [media (6,6′-Cl_2bpy=6,6′-dichloro-2,2′-bipyridine) 39
dimethyl carbonate
Scope of the N-alkylation of amides and the C-alkylation of malonates by methyl formate and dimethyl carbonate L131
DNA hydrolysis
Lanthanide metal complexes for the hydrolysis of linear DNAs L21
electronic structure
Electronic structure of bis(triphenylphosphine)acetone-(ethene)rhodium hexafluorophosphate 261
electron transfer
Electron transfer reactions at Nafion and clay adsorbed $Ru(bpy)_3^{2+}$ coated electrodes 187
enantioselectivity
Effect of water-mimicking additives on the synthetic activity and enantioselectivity in organic solvents of a *Candida cylindracea* lipase L27
enantiospecific hydrolysis
Enantiospecific hydrolysis of esters of nonsteroidal antiinflammatory drugs using lipase of *Candida cylindracea* 399
enzymatic synthesis
Resolution of racemic mixtures by synthesis reactions catalyzed by immobilized derivatives of the enzyme penicillin G acylase 365
enzyme immobilization
Immobilization of nucleases on corn cob 391
enzyme immobilization-stabilization
Syntheses of pharmaceutical oligosaccharides catalyzed by immobilized-stabilized derivatives of different β-galactosidases 373
enzymes
Syntheses of pharmaceutical oligosaccharides catalyzed by immobilized-stabilized derivatives of different β-galactosidases 373
ethene
Electronic structure of bis(triphenylphosphine)acetone-(ethene)rhodium hexafluorophosphate 261
ethyl benzoate
Model for the formation of active titanium complexes on $MgCl_2$-ethyl benzoate-$TiCl_4$ catalysts for propylene polymerization 109
ethylene
Codimerization of 2,5-norbornadiene with ethylene using soluble cobalt and nickel catalysts 77
5-ethylidene-2-norbornene
Codimerization of 2,5-norbornadiene with ethylene using soluble cobalt and nickel catalysts 77
FeZSM-5
Stoichiometric reaction of benzene with α-form of oxygen on FeZSM-5 zeolites. Mechanism of aromatics hydroxylation by N_2O 117
β-galactosidases
Syntheses of pharmaceutical oligosaccharides catalyzed by immobilized-stabilized derivatives of different β-galactosidases 373
heterocyclic nitrogen bases
Hydroformylation of olefins catalysed by supported $Ru_3(CO)_{12}$ with 2,2′-bipyridine or with other heterocyclic nitrogen base 145
heterogeneous decomposition
Kinetics of heterogeneous decomposition of hydrogen peroxide with some transition metal complexes supported on silica-alumina in aqueous medium 67
heteropolyanion
Oxidation of alkylaromatic compounds with hydrogen peroxide catalyzed by mixed addenda Keggin heteropolyanions 93
hydroformylation
Hydroformylation of olefins catalysed by supported $Ru_3(CO)_{12}$ with 2,2′-bipyridine or with other heterocyclic nitrogen base 145
hydrogen
Kinetics of the bimolecular reaction NO+H_2 on Pt 267
hydrogenation
Catalysis of alkene hydrogenation and oxidation by nickel-saloph complex; a novel bifunctional catalyst L1
Ziegler systems as hydrogenation catalysts. Part 2[1]. Dependence of the hydro-

genation activity of $CoBr_2/Li[AlH_n(O-R)_{4-n}]$ systems from the concentration of the reducing agent 33
Catalytic hydrogenation reactions by [*cis*-$[Ru(6,6'-Cl_2bpy)_2(OH_2)_2]$ $(CF_3SO_3)_2$ in biphasic [media (6,6'-Cl_2bpy=6,6'-dichloro-2,2'-bipyridine) 39
The effect of phosphonium salt formation on the kinetics of homogeneous hydrogenations in water utilizing a rhodium *meta*-sulfonatophenyl-diphenylphosphine complex 157
Highly active alkali metal hydrides; their catalytic syntheses and properties 211
hydrogen peroxide
Kinetics of heterogeneous decomposition of hydrogen peroxide with some transition metal complexes supported on silica–alumina in aqueous medium 67
Oxidation of alkylaromatic compounds with hydrogen peroxide catalyzed by mixed addenda Keggin heteropolyanions 93
hydroxycarbonylation
Pt(II)–$SnCl_2$ catalyzed hydromethoxycarbonylation of 1-alkynes: a remarkable example of regioselectivity control L141
hydroxylation
Stoichiometric reaction of benzene with α-form of oxygen on FeZSM-5 zeolites. Mechanism of aromatics hydroxylation by N_2O 117
immobilized biocatalysts
Thiolation and reversible immobilization of sweet potato β-amylase on thiolsulfonate-agarose 381
isobutane dehydrogenation
Platinum supported on coprecipitated Sn–$ZnAl_2O_4$ 177
isomerization
Isomerization of methyl formate to acetic acid catalyzed by the Ru(II)–Sn(II) heteronuclear cluster complex $[Ru(SnCl_3)_5(PPh_3)]$ 51
kinetics
Kinetics of heterogeneous decomposition of hydrogen peroxide with some transition metal complexes supported on silica–alumina in aqueous medium 67
Kinetics of the bimolecular reaction $NO+H_2$ on Pt 267
lanthanide(III) complex
Lanthanide metal complexes for the hydrolysis of linear DNAs L21
lanthanum(III) complex
Lanthanide metal complexes for the hydrolysis of linear DNAs L21
lipase
Effect of water-mimicking additives on the synthetic activity and enantioselectivity in organic solvents of a *Candida cylindracea* lipase L27
Enantiospecific hydrolysis of esters of nonsteroidal antiinflammatory drugs using lipase of *Candida cylindracea* 399
lithium
Ziegler systems as hydrogenation catalysts. Part 2[1]. Dependence of the hydrogenation activity of $CoBr_2/Li[AlH_n(O-R)_{4-n}]$ systems from the concentration of the reducing agent 33
magnesium
Model for the formation of active titanium complexes on $MgCl_2$–ethyl benzoate–$TiCl_4$ catalysts for propylene polymerization 109
malonates
Scope of the N-alkylation of amides and the C-alkylation of malonates by methyl formate and dimethyl carbonate L131
metathesis
Ring-opening metathesis copolymerization of cyclopentene and [2.2]paracyclophane-1,9-diene: UV–Vis-spectroscopic determination of sequence-length distribution of *p*-phenylenevinylene units 253
methyl acetate
Isomerization of methyl formate to acetic acid catalyzed by the Ru(II)–Sn(II) heteronuclear cluster complex $[Ru(SnCl_3)_5(PPh_3)]$ 51
methyl formate
Isomerization of methyl formate to acetic acid catalyzed by the Ru(II)–Sn(II) heteronuclear cluster complex $[Ru(SnCl_3)_5(PPh_3)]$ 51
Scope of the N-alkylation of amides and the C-alkylation of malonates by methyl formate and dimethyl carbonate L131
mixed oxides / zirconia–alumina
Acidic and basic properties of zirconia–al-

umina and zirconia–titania mixed oxides 283
MNDO energetics
Simulation of topography and acid properties of silicon substituted $AlPO_4$-11 framework 299
modified electrodes
Electron transfer reactions at Nafion and clay adsorbed $Ru(bpy)_3^{2+}$ coated electrodes 187
molybdenum
Oxidation of alkylaromatic compounds with hydrogen peroxide catalyzed by mixed addenda Keggin heteropolyanions 93
Stoichiometric and catalytic oxidation of cyclohexylamine by $Mo(O)(O_2)_2(H_2O)(HMPA)$ L137
monopersulphate
Ruthenium-catalyzed oxidation of alkylaromatics by monopersulfate with preferential oxidative fission of the benzene ring 59
montmorillonite clay
Electron transfer reactions at Nafion and clay adsorbed $Ru(bpy)_3^{2+}$ coated electrodes 187
Nafion
Electron transfer reactions at Nafion and clay adsorbed $Ru(bpy)_3^{2+}$ coated electrodes 187
n-butane
Dynamic description of the oxidation of *n*-butane on various faces of $(VO)_2P_2O_7$ in terms of the crystallochemical model of active sites 307
n-heptane conversion
Platinum supported on coprecipitated Sn-$ZnAl_2O_4$ 177
nickel
Catalysis of alkene hydrogenation and oxidation by nickel–saloph complex; a novel bifunctional catalyst L1
Codimerization of 2,5-norbornadiene with ethylene using soluble cobalt and nickel catalysts 77
nitric oxide
Kinetics of the bimolecular reaction $NO + H_2$ on Pt 267
nitrous oxide
Stoichiometric reaction of benzene with α-form of oxygen on FeZSM-5 zeolites. Mechanism of aromatics hydroxylation by N_2O 117
2,5-norbornadiene
Codimerization of 2,5-norbornadiene with ethylene using soluble cobalt and nickel catalysts 77
nucleases
Immobilization of nucleases on corn cob 391
olefinic acids
The effect of phosphonium salt formation on the kinetics of homogeneous hydrogenations in water utilizing a rhodium *meta*-sulfonatophenyl-diphenylphosphine complex 157
olefins
Allylic oxidation of olefins catalyzed by cobalt chloride. The beneficial effect of *N*-methylpyrrolidinone 87
Hydroformylation of olefins catalysed by supported $Ru_3(CO)_{12}$ with 2,2′-bipyridine or with other heterocyclic nitrogen base 145
oligosaccharides
Syntheses of pharmaceutical oligosaccharides catalyzed by immobilized-stabilized derivatives of different β-galactosidases 373
organic solvent
Effect of water-mimicking additives on the synthetic activity and enantioselectivity in organic solvents of a *Candida cylindracea* lipase L27
organic synthesis
Syntheses of pharmaceutical oligosaccharides catalyzed by immobilized-stabilized derivatives of different β-galactosidases 373
oxidation
Chromium(VI)-catalyzed oxidation of adamantane by *tert*-butyl hydroperoxide L15
Oxidation of alkylaromatic compounds with hydrogen peroxide catalyzed by mixed addenda Keggin heteropolyanions 93
Stoichiometric reaction of benzene with α-form of oxygen on FeZSM-5 zeolites. Mechanism of aromatics hydroxylation by N_2O 117
Stoichiometric and catalytic oxidation of cyclohexylamine by

$Mo(O)(O_2)_2(H_2O)(HMPA)$ L137
palladium
New alkoxycarbonyl complexes of palladium(II) and their role in carbonylation reactions carried out in the presence of an alkanol 165
Nucleophilic attack on the central allyl carbon of η^3-allyl complexes of Pd and Pt. Synthesis of cyclopropanes from allylic electrophiles and silyl enolates 239
penicillin acylase
Resolution of racemic mixtures by synthesis reactions catalyzed by immobilized derivatives of the enzyme penicillin G acylase 365
peroxo complexes
Stoichiometric and catalytic oxidation of cyclohexylamine by $Mo(O)(O_2)_2(H_2O)(HMPA)$ L137
phosphonium salts
The effect of phosphonium salt formation on the kinetics of homogeneous hydrogenations in water utilizing a rhodium *meta*-sulfonatophenyl-diphenylphosphine complex 157
platinum
$Pt(II)$-$SnCl_2$ catalyzed hydromethoxycarbonylation of 1-alkynes: a remarkable example of regioselectivity control L141
Nucleophilic attack on the central allyl carbon of η^3-allyl complexes of Pd and Pt. Synthesis of cyclopropanes from allylic electrophiles and silyl enolates 239
Kinetics of the bimolecular reaction $NO + H_2$ on Pt 267
polymerization
Model for the formation of active titanium complexes on $MgCl_2$–ethyl benzoate–$TiCl_4$ catalysts for propylene polymerization 109
polyoxometalates
Oxidation of alkylaromatic compounds with hydrogen peroxide catalyzed by mixed addenda Keggin heteropolyanions 93
preferential oxidative fission
Ruthenium-catalyzed oxidation of alkylaromatics by monopersulfate with preferential oxidative fission of the benzene ring 59
propylene
Model for the formation of active titanium complexes on $MgCl_2$–ethyl benzoate–$TiCl_4$ catalysts for propylene polymerization 109
pyridine complex
Electron transfer reactions at Nafion and clay adsorbed $Ru(bpy)_3^{2+}$ coated electrodes 187
racemic resolution
Resolution of racemic mixtures by synthesis reactions catalyzed by immobilized derivatives of the enzyme penicillin G acylase 365
reductive alkylation
Synthesis of secondary amines by reductive alkylation using copper chromite catalyst: steric effect of carbonyl compounds 125
regioselectivity
On the reactivity of acetylenes coordinated to cobalt. Part 8[1]: Carbonylation of acetylenes with bulky substituents L7
Syntheses of pharmaceutical oligosaccharides catalyzed by immobilized-stabilized derivatives of different β-galactosidases 373
regioselectivity control
$Pt(II)$-$SnCl_2$ catalyzed hydromethoxycarbonylation of 1-alkynes: a remarkable example of regioselectivity control L141
reversible immobilization
Thiolation and reversible immobilization of sweet potato β-amylase on thiolsulfonate-agarose 381
rhodium
Carbohydrate phosphinites as chiral ligands for asymmetric syntheses catalyzed by complexes. Part X.[1] Importance of all-equatorial arrangement in vicinal bisphosphinite hexapyranoside ligands for rhodium catalyzed asymmetric hydrogenation 223
Electronic structure of bis(triphenylphosphine)acetone-(ethene)rhodium hexafluorophosphate 261
rhodium phosphine complexes
The effect of phosphonium salt formation on the kinetics of homogeneous hydrogenations in water utilizing a rhodium *meta*-sulfonatophenyl-diphenylphosphine complex 157
ring opening

Ring-opening metathesis copolymerization of cyclopentene and [2.2]paracyclophane-1,9-diene: UV–Vis-spectroscopic determination of sequence-length distribution of *p*-phenylenevinylene units 253

ruthenium

Catalytic hydrogenation reactions by [*cis*-[Ru(6,6′-Cl_2bpy)$_2$(OH_2)$_2$] (CF_3SO_3)$_2$ in biphasic [media (6,6′-Cl_2bpy=6,6′-dichloro-2,2′-bipyridine) 39

Ruthenium-catalyzed oxidation of alkylaromatics by monopersulfate with preferential oxidative fission of the benzene ring 59

Hydroformylation of olefins catalysed by supported $Ru_3(CO)_{12}$ with 2,2′-bipyridine or with other heterocyclic nitrogen base 145

Electron transfer reactions at Nafion and clay adsorbed $Ru(bpy)_3^{2+}$ coated electrodes 187

ruthenium complex

Isomerization of methyl formate to acetic acid catalyzed by the Ru(II)–Sn(II) heteronuclear cluster complex [$Ru(SnCl_3)_5(PPh_3)$] 51

ruthenium–tin cluster

Isomerization of methyl formate to acetic acid catalyzed by the Ru(II)–Sn(II) heteronuclear cluster complex [$Ru(SnCl_3)_5(PPh_3)$] 51

saloph

Catalysis of alkene hydrogenation and oxidation by nickel–saloph complex; a novel bifunctional catalyst L1

secondary amines

Synthesis of secondary amines by reductive alkylation using copper chromite catalyst: steric effect of carbonyl compounds 125

silica–alumina

Kinetics of heterogeneous decomposition of hydrogen peroxide with some transition metal complexes supported on silica–alumina in aqueous medium 67

silicon substituted $AlPO_4$-11 framework

Simulation of topography and acid properties of silicon substituted $AlPO_4$-11 framework 299

silyl enolates

Nucleophilic attack on the central allyl carbon of η^3-allyl complexes of Pd and Pt. Synthesis of cyclopropanes from allylic electrophiles and silyl enolates 239

steric effects.

Synthesis of secondary amines by reductive alkylation using copper chromite catalyst: steric effect of carbonyl compounds 125

sulfonated phosphines

The effect of phosphonium salt formation on the kinetics of homogeneous hydrogenations in water utilizing a rhodium *meta*-sulfonatophenyl-diphenylphosphine complex 157

supported catalyst

Hydroformylation of olefins catalysed by supported $Ru_3(CO)_{12}$ with 2,2′-bipyridine or with other heterocyclic nitrogen base 145

surface oxygen

Stoichiometric reaction of benzene with α-form of oxygen on FeZSM-5 zeolites. Mechanism of aromatics hydroxylation by N_2O 117

synthetic activity

Effect of water-mimicking additives on the synthetic activity and enantioselectivity in organic solvents of a *Candida cylindracea* lipase L27

template effect

On the reactivity of acetylenes coordinated to cobalt. Part 8[1]: Carbonylation of acetylenes with bulky substituents L7

tert-butyl hydroperoxide

Chromium(VI)-catalyzed oxidation of adamantane by *tert*-butyl hydroperoxide L15

thiolation

Thiolation and reversible immobilization of sweet potato β-amylase on thiolsulfonate-agarose 381

thiolsulfonate-agarose

Thiolation and reversible immobilization of sweet potato β-amylase on thiolsulfonate-agarose 381

tin

Pt(II)–$SnCl_2$ catalyzed hydromethoxycarbonylation of 1-alkynes: a remarkable example of regioselectivity control L141

tin–zinc aluminate

Platinum supported on coprecipitated Sn-$ZnAl_2O_4$ 177
titanium
Model for the formation of active titanium complexes on $MgCl_2$-ethyl benzoate-$TiCl_4$ catalysts for propylene polymerization 109
titanium catalyst
Highly active alkali metal hydrides; their catalytic syntheses and properties 211
topography simulation
Simulation of topography and acid properties of silicon substituted $AlPO_4$-11 framework 299
UV-Vis spectroscopy
Ring-opening metathesis copolymerization of cyclopentene and [2.2]paracyclophane-1,9-diene: UV-Vis-spectroscopic determination of sequence-length distribution of *p*-phenylenevinylene units 253
vanadium
Allylic oxidation of olefins catalyzed by cobalt chloride. The beneficial effect of *N*-methylpyrrolidinone 87
Oxidation of alkylaromatic compounds with hydrogen peroxide catalyzed by mixed addenda Keggin heteropolyanions 93
5-vinyl-2-norbornene
Codimerization of 2,5-norbornadiene with ethylene using soluble cobalt and nickel catalysts 77
3-vinyltricyclene
Codimerization of 2,5-norbornadiene with ethylene using soluble cobalt and nickel catalysts 77
$(VO)_2P_2O_7$
Dynamic description of the oxidation of *n*-butane on various faces of $(VO)_2P_2O_7$ in terms of the crystallochemical model of active sites 307
water-mimicking compounds
Effect of water-mimicking additives on the synthetic activity and enantioselectivity in organic solvents of a *Candida cylindracea* lipase L27
X-ray diffraction
Platinum supported on coprecipitated Sn-$ZnAl_2O_4$ 177
zeolites
Stoichiometric reaction of benzene with α-form of oxygen on FeZSM-5 zeolites. Mechanism of aromatics hydroxylation by N_2O 117
Ziegler systems
Ziegler systems as hydrogenation catalysts. Part 2[1]. Dependence of the hydrogenation activity of $CoBr_2/Li[AlH_n(OR)_{4-n}]$ systems from the concentration of the reducing agent 33
zinc aluminate
Platinum supported on coprecipitated Sn-$ZnAl_2O_4$ 177
zirconia-titania
Acidic and basic properties of zirconia-alumina and zirconia-titania mixed oxides 283